

### Abstract

The present invention provides a convenient, efficient method for determining a substrate contained in a hemoglobin-containing sample and a reagent therefor, which can be employed for a variety of automatic analyzers while reducing interference of hemoglobin contained in the sample.

A method for determining a substrate contained in a hemoglobin-containing sample through reaction of an oxidase with the substrate and optical measurement of the produced hydrogen peroxide by use of a peroxidase and an oxidizable color producing reagent, characterized in that the hemoglobin-containing sample is treated with an anionic surfactant selected from among a polyoxyethylene alkyl ether sulfate salt, a polyoxyethylene alkylphenyl ether sulfate salt, a polyoxyethylene alkyl ether phosphate, a polyoxyethylene alkyl sulfosuccinate, a polyoxyethylene alkyl ether carboxylate salt, a polyoxyethylene alkyl ether sulfonate salt, triethanolamine lauryl sulfate, an alkyl sulfosuccinate, and an alkylphenyl ether sulfonate salt.